

**RECEIVED  
CENTRAL FAX CENTER**

**OCT 23 2006**



**North America  
Intellectual Property Corporation**

**P.O. BOX 506, Merrifield, VA 22116, U.S.A.**

**Voice Mail: 302-729-1562**

**FAX: 806-498-6673**

**e-mail: winstonhsu@naipo.com**

**Customer No.: 27765**

**Fax To: SCALES, IYONE I.**

**Art Unit: 3926**

**Tel.: N/A**

**Fax: (571) 273-8300**

**From : Winston Hsu, Registration No. 41,526**

**Serial No.: 10/707,243**

**Attorney Docket No.: ADTP0122USA**

**Subject: Information Disclosure Statement (IDS)**

**Total Pages: [ ] pages (including cover page)**

**Winston Hsu Date: OCT 23 2006**

**ADTP0122USA0\_D1\_1**

**RECEIVED**  
**CENTRAL FAX CENTER**

**OCT 23 2006**

PTO/SB/21 (07-00)

Approved for use through 09/30/2006. OMB 0851-0031  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/707,243
	Filing Date	12/01/2003
	First Named Inventor	Wein-Town Sun
	Art Unit	3926
	Examiner Name	SCALES, IYONE L
	Attorney Docket Number	ADTP0122USA
Total Number of Pages in This Submission		110

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication in Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm Name	North America Intellectual Property Corporation
Signature	<i>Winston Hsu</i>
Printed name	Winston Hsu
Date	OCT 23 2006
Reg. No.	41,526

CERTIFICATE OF TRANSMISSION/MAILING	
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:	
Signature	<i>Jun Yu</i>
Typed or printed name	Jun Yu
Date	OCT 23 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**RECEIVED**  
**CENTRAL FAX CENTER**

OCT 23 2006

PTO/SB/17 (07-06)

Approved for use through 01/31/2007. OMB 0851-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control

Effective on 12/09/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# **FEE TRANSMITTAL**

## **For FY 2005**

☐ Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT (\$)** 0.00
**Complete If Known**

Application Number	10/707,243
Filing Date	12/01/2003
First Named Inventor	Wein-Town Sun
Examiner Name	SCALES, IYONE L
Art Unit	3926
Attorney Docket No.	ADTP0122USA

**METHOD OF PAYMENT (check all that apply)**
☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_

☒ Deposit Account Deposit Account Number: **50-3105** Deposit Account Name: North America Intellectual Property Corporation

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below

☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17

☒ Credit any overpayments

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.
**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Small Entity	Fee (\$)	Small Entity	Fee (\$)	Small Entity	Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES****Fee Description**

Each claim over 20 (including Reissues)

Each independent claim over 3 (including Reissues)

Multiple dependent claims

Small Entity	Fee (\$)
50	25
200	100
360	180

<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
---------------------	---------------------	-----------------	----------------------

- 20 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of total claims paid for, if greater than 20.

<b>Indep. Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
----------------------	---------------------	-----------------	----------------------

- 3 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
---------------------	---------------------	---	-----------------	----------------------

- 100 = \_\_\_\_\_ / 50 \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): submission of Information Disclosure Statement

0.00

**SUBMITTED BY**Signature *Winston Hsu*Registration No. 41,526  
(Attorney/Agent)

Telephone 3027291562

Name (Print/Type) Winston Hsu

Date **OCT 23 2006**

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**RECEIVED**  
**CENTRAL FAX CENTER**

OCT 23 2006

PTO/SB/08a (07-08)

Approved for use through 09/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10707,243
Filing Date	12/01/2003
First Named Inventor	Wein-Town Sun
Art Unit	3926
Examiner Name	SCALES, IYONE L
Attorney Docket Number	ADTP0122USA

Sheet 1 of 2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US- 6,222,357 B1	04-24-2001	Sakuragi	all
	2	US- 6,690,367 B2	02-10-2004	Akimoto	all
	3	US- 4,987,140	10-30-1990	Groeneveld, et al.	all
	4	US- 6,650,060	11-18-2003	OKUDA YOSHIYUKI	all
	5	US- 6,703,682	12-30-1997	Koyama, et al.	all
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	6
	6	JP 2000-081920 A	03-21-2000	CANON INC	all	✓
	7	JP 2002-366076 A	12-20-2002	HIKARI LTD	all	✓
	8	JP 2002-351404 A	12-06-2002	SPARKCONDUCTOR ENERGY LAB CO. LTD.	all	✓
	9	JP H02-105907 A	04-18-1990	PIRELLA GLOBILAM/ENFABENV	all	✓
	10	JP 2002-215095 A	07-31-2002	PIONEER ELECTRONIC CORP	all	✓
	11	JP S62-122488 U	08-04-1987		all	✓

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**RECEIVED**  
CENTRAL FAX CENTER

OCT 23 2006

PTO/SB/08a (07 06)

Approved for use through 09/30/2008. OMB 0551-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/707,243
Filing Date	12/01/2003
First Named Inventor	Wein-Town Sun
Art Unit	3926
Examiner Name	SCALES, IYONE L
Attorney Docket Number	ADTP0122USA

Sheet 2 of 2

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	12	JP H08-288848 A	11-01-1996	INTERNAT. BUSINESS MACH.	all	✓

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-788-9199) and select option 2.

**RECEIVED**  
**CENTRAL FAX CENTER**  
OCT 23 2006

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Appl. No. : 10/707,243 Confirmation No.: 1242  
First named Inventor: Wein-Town Sun  
Filed : 12-01-2003  
TC/A.U. : 3926  
Examiner : SCALES, IYONE L  
Docket No. : ADTP0122USA  
Customer No.: 27765

5 Title: DATA DRIVER USED IN A CURRENT-DRIVING DISPLAY  
DEVICE

To: The Commissioner for Patents  
P.O. Box 1450  
10 Alexandria VA 22313-1450

Subject: Information disclosure statement Under  
37C.F.R.\$1.56.

15 Dear Sir:

This is an Information Disclosure Statement in  
accordance with the duty to disclose information  
material to patentability under 37 CFR \$1.56.  
20 Applicant wishes to make of record the documents listed  
on the accompanying form PTO/SB/08.

Since the IDS is filed before the mailing of a first  
Office action on the merits, consideration of the  
25 information disclosure statement is hereby requested  
according to 37C.F.R.\$1.97(b). The listed

publications were cited by the Japan Patent Office on  
2006/08/23 for a counterpart Japanese patent  
application #2003-180055. Applicant sincerely hopes  
that the examiner can consider each of the items  
5 contained in the information disclosure statement.

According to the requirement set forth in 37 CFR  
§1.98 and MPEP 609, applicant is submitting a copy of  
the items contained in the IDS:

- 10 1. Japanese Laid-Open Application number:  
2000-081920 (published on 2000/3/21);
2. Japanese Laid-Open Application number:  
2002-366076 (published on 2002/12/20);
3. Japanese Laid-Open Application number:  
15 2002-351404 (published on 2002/12/6);
4. Japanese Laid-Open Application number: H02-105907  
(published on 1990/4/18);
5. Japanese Laid-Open Application number:  
2002-215095 (published on 2002/7/31);
- 20 6. Japanese Utility model Application number:  
S61-010861 (Japanese Utility model Laid-Open  
Application number: S62-122488, published on  
1987/8/4);
7. Japanese Laid-Open Application number: H08-288848  
25 (published on 1996/11/1).

The Japanese Laid-Open Application number:  
2000-081920 has a counterpart US patent No.: 6222357.  
The Japanese Laid-Open Application number:  
30 2002-366076 has a counterpart US patent No.: 6690367.  
The English abstract of the Japanese Laid-Open  
Application number: 2002-351404 published in the  
European Patent Office website is attached to this IDS

to comply with the IDS requirement. The Japanese Laid-Open Application number: H02-105907 has a counterpart US patent publication No.: 4967140. The Japanese Laid-Open Application number: 2002-215095  
5 has a counterpart US patent No.: 6650060. The Japanese Laid-Open Application number: H08-288848 has a counterpart US patent publication No.: 5703582.

The abstract of the Japanese Utility model  
10 Laid-Open Application number: S62-122488 cannot be found. Therefore, only the claim is translated. The claim of the Japanese Utility model Laid-Open Application number: S62-122488 is translated as follows:

15 A current source circuit connected to a circuit network comprising:

a plurality of active elements;  
a plurality of capacitor components formed between a gate and a source of each active element; and  
20 a plurality of first switches formed installed between a drain and the gate of each active element, wherein, the drain of the active element is connected to a moving contact of a second switch;

a first fixed contact of the second switch is connected  
25 to the circuit network; and

a second fixed contact of the second switch is connected to a predetermined reference current source, in which,

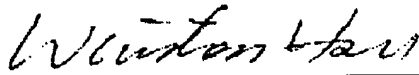
upon switching the second switch to the second fixed  
30 contact and turning on the first switch in any period, a reference current from the reference current source flows through the active element, and the capacitor component is charged by charges corresponding to the



reference current; and  
upon switching the second switch to the first fixed  
contact and turning off the first switch in a  
predetermined period, a current formed by the charges  
5 that charged the capacitor component flows through the  
active element, and is supplied to the circuit network.

Respectfully submitted,

10



Date: OCT 23 2006

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

15 Voice Mail: 302-729-1562

Facsimile: 806-498-6673

e-mail : winstonhsu@naipo.com

20 Note: Please leave a message in my voice mail if you need to  
talk to me. (The time in D.C. is 12 hours behind the Taiwan  
time, i.e. 9 AM in D.C. = 9 PM in Taiwan.)